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(FILE 'HOME' ENTERED AT 17:58:32 ON 30 MAY 2009)

FILE 'REGISTRY' ENTERED AT 17:58:56 ON 30 MAY 2009

L1 STRUCTURE UPLOADED

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L3 26 S L1 FULL

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66606269 CAPLUS/LC

L4 23 L3 AND CAPLUS/LC

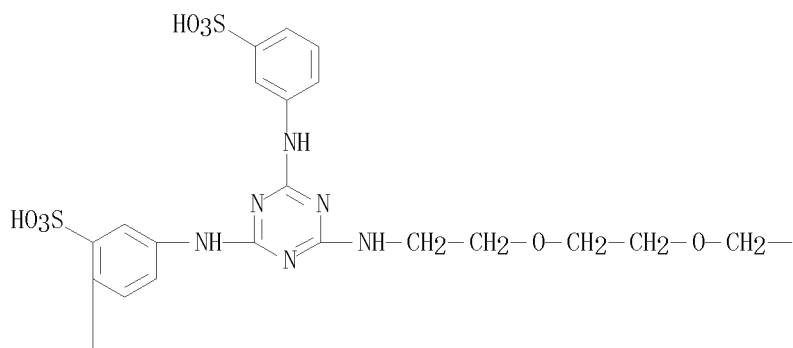
=> s l3 not l4

L5 3 L3 NOT L4

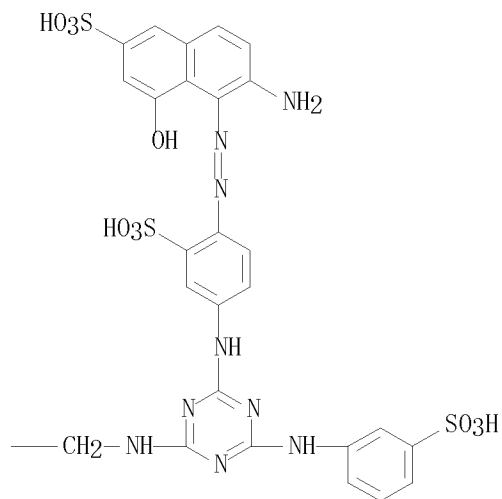
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L5 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
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 ED Entered STN: 07 Dec 2004
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 diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA
 INDEX NAME)
 MF C59 H58 N18 O22 S6
 CI IDS, COM
 SR CA

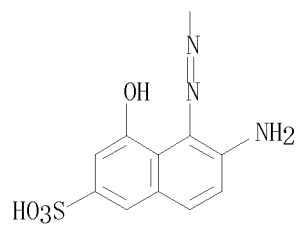
PAGE 1-A



PAGE 1-B



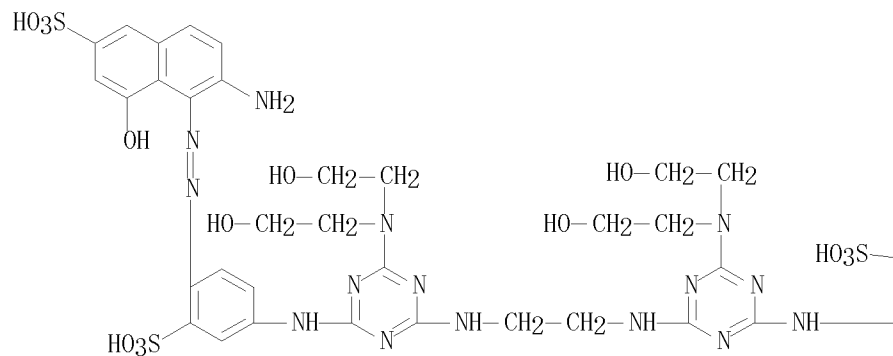
PAGE 2-A



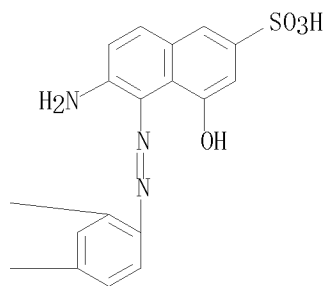
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L5 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
RN 702635-23-2 REGISTRY
ED Entered STN: 02 Jul 2004
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MF C48 H52 N18 O18 S4
CI COM
SR CA

PAGE 1-A

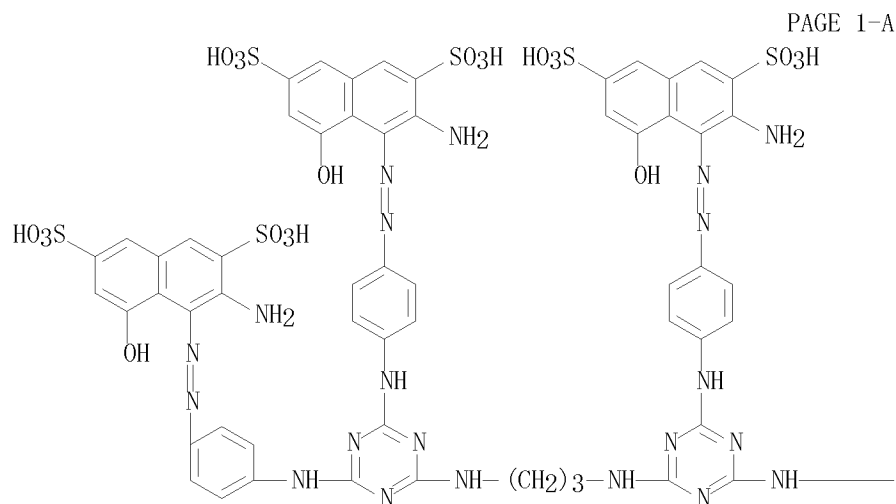


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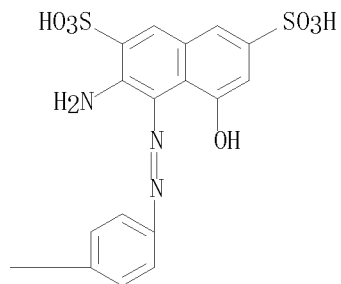


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
RN 174571-96-1 REGISTRY
ED Entered STN: 27 Mar 1996
CN 2,7-Naphthalenedisulfonic acid, 4,4',4'',4'''-[1,3-propanediylbis[imino-
1,3,5-triazine-6,2,4-triylbis(imino-4,1-phenyleneazo)]] tetrakis[3-amino-5-
hydroxy- (9CI) (CA INDEX NAME)
MF C73 H60 N24 O28 S8
CI COM
SR CA



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil capl
FILE 'CAPLUS' ENTERED AT 18:01:30 ON 30 MAY 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 30 May 2009 VOL 150 ISS 23
FILE LAST UPDATED: 29 May 2009 (20090529/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate
'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s l3
L6 6 L3

=> d 1-6 bib abs hitstr

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:283546 CAPLUS
 DN 142:337769
 TI Disazo dyes comprising [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing
 IN Gisler, Markus
 PA Clariant International Ltd, Switz.
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005028563	A1	20050331	WO 2004-IB3107	20040923
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	EP 1675912	A1	20060705	EP 2004-769467	20040923
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	BR 2004014624	A	20061107	BR 2004-14624	20040923
	JP 2007505965	T	20070315	JP 2006-526734	20040923
	ZA 2006001395	A	20070425	ZA 2006-1395	20060216
	MX 2006003018	A	20060623	MX 2006-3018	20060316
	KR 2006126451	A	20061207	KR 2006-705671	20060322
	IN 2006CN00981	A	20070615	IN 2006-CN981	20060322
	US 20080233289	A1	20080925	US 2006-573015	20060322
PRAI	EP 2003-21448	A	20030923		
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GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

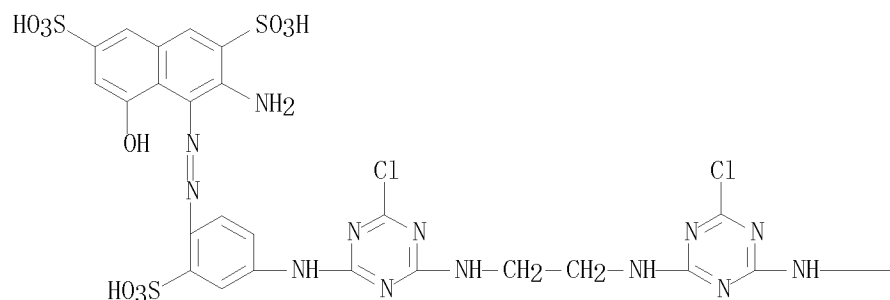
AB A dyestuff according to formula (I) or a salt thereof, wherein B and B' are each independently -SO₃H, -COOH, substituted alkoxy, substituted alkyl, un-substituted alkoxy, un-substituted alkyl, or -PO₃H₂; Q is an organic aliphatic linking group, which is either a un-substituted or substituted alkyl group which is not interrupted by any hetero atom or a un-substituted or substituted alkyl ether group comprising one oxygen atom or is a un-substituted or substituted alkyl polyamine group comprising one or two or more nitrogen atoms; R, R', R'', and R''' are each independently H or un-substituted or substituted alkyl; are each independently a labile atom or group. The dyestuffs are useful for dyeing or printing nitrogen-containing or hydroxy-group-containing organic substrates (e.g., cotton fabrics) and for the production of (ink-jet) printing inks.

IT 847687-81-4P

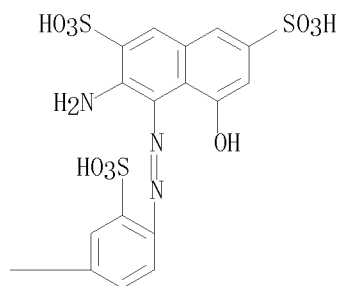
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 (bluish-red dye; production of disazo dyes containing [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing)

RN 847687-81-4 CAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,2-ethanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



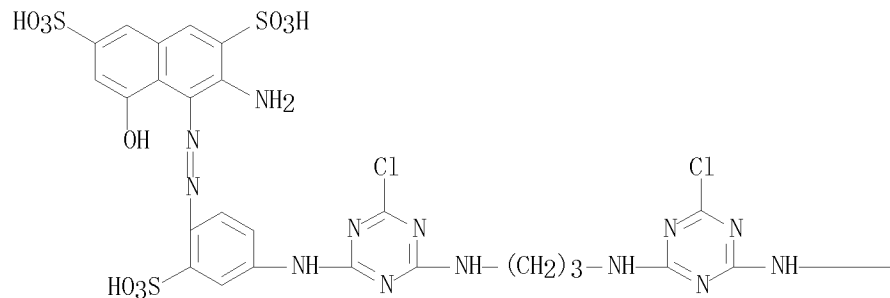
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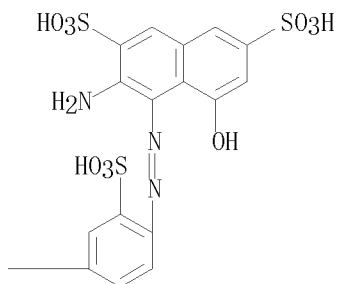
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 848421-16-9P 848421-18-1P 848421-20-5P
 848421-22-7P 848421-24-9P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (production of disazo dyes containing [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing)

RN 848421-08-9 CAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



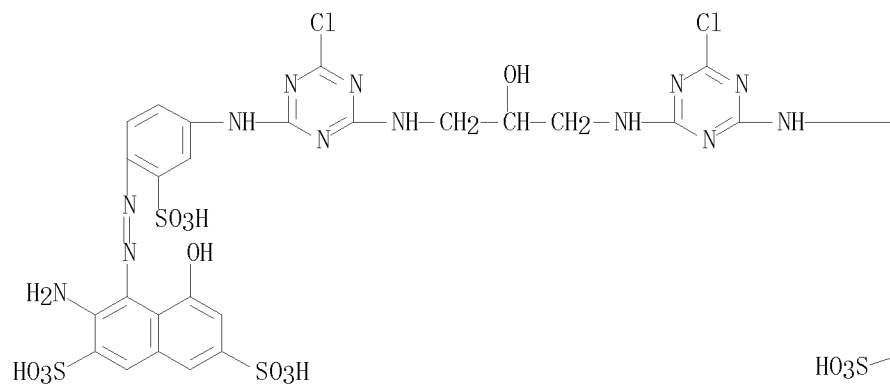
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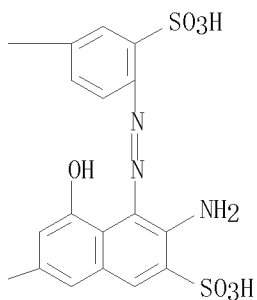
RN 848421-09-0 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4,4'-[(2-hydroxy-1,3-propanediyl)bis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)]

PAGE 1-A



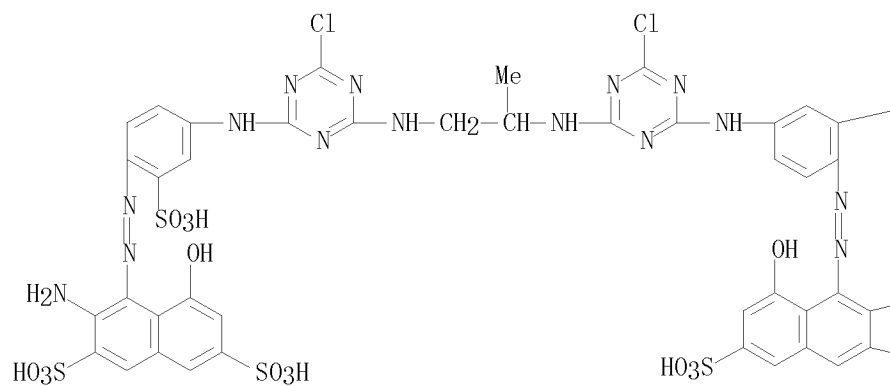
PAGE 1-B



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CN 2,7-Naphthalenedisulfonic acid, 4,4'-[(1-methyl-1,2-ethanediyl)bis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)]

PAGE 1-A



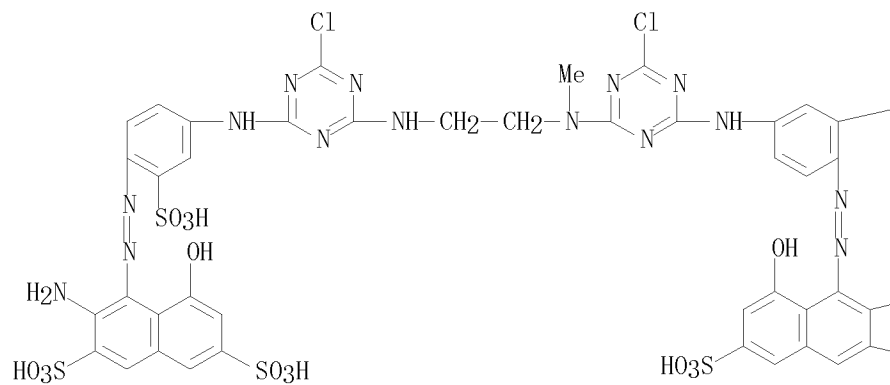
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RN 848421-11-4 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 3-amino-4-[2-[4-[[4-[[2-[[4-[[4-[2-(2-amino-8-hydroxy-3,6-disulfo-1-naphthalenyl)diazenyl]-3-sulfo-phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]methylamino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfo-phenyl]diazenyl]-5-hydroxy- (CA INDEX NAME)

PAGE 1-A



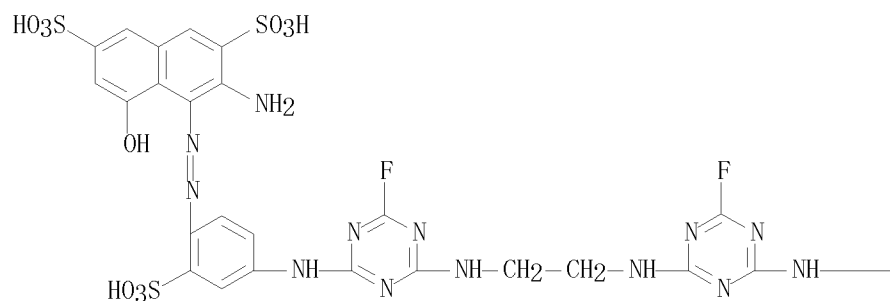
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—SO₃H—NH₂—SO₃H

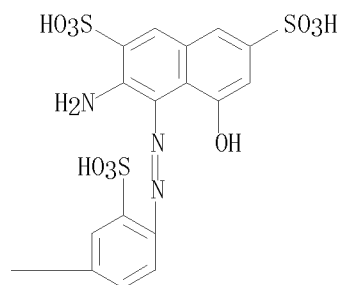
RN 848421-12-5 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,2-ethanediylbis[imino(6-fluoro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



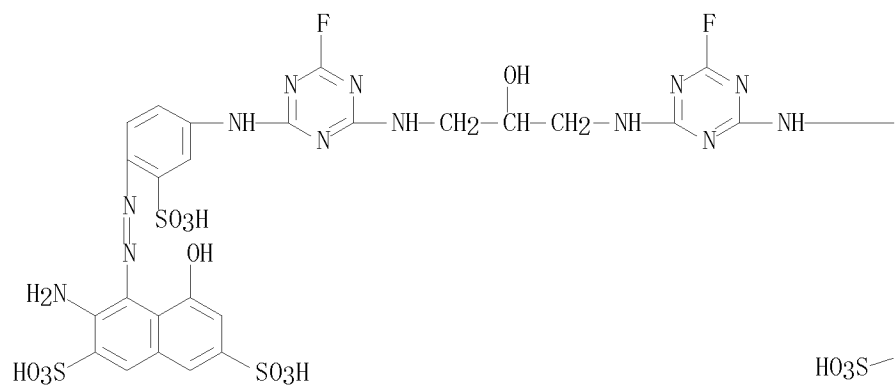
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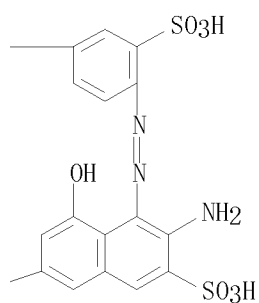
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CN 2,7-Naphthalenedisulfonic acid, 4,4'-[(2-hydroxy-1,3-propanediyl)bis[imino(6-fluoro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



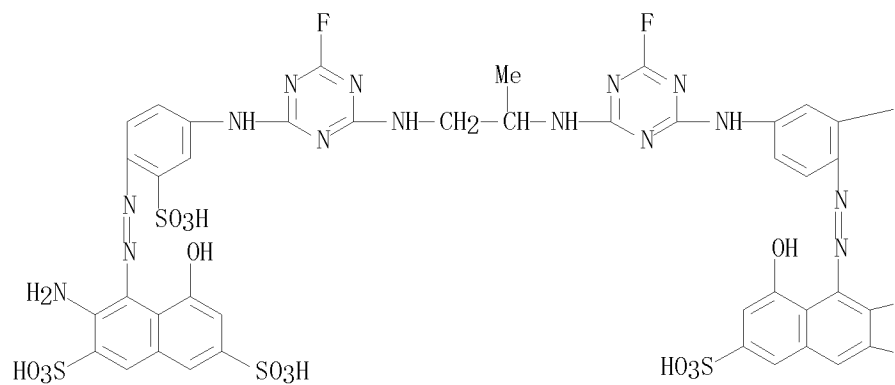
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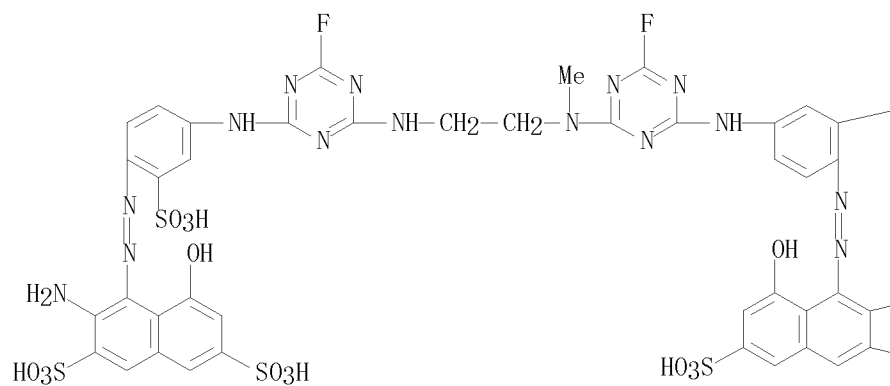
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PAGE 1-A



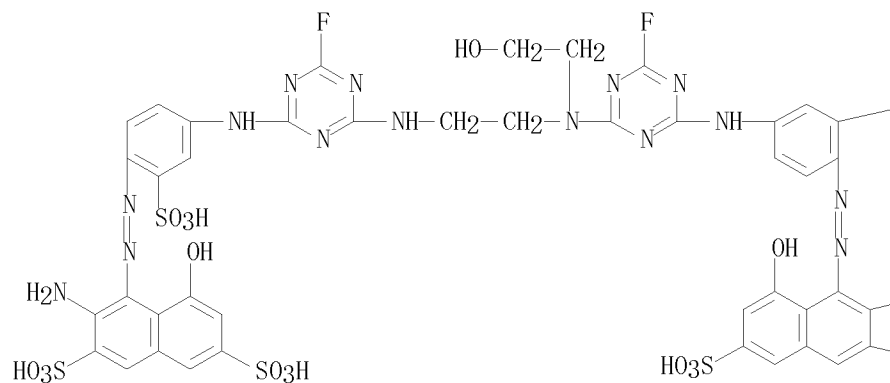
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—SO₃H—NH₂—SO₃H

RN 848421-22-7 CAPLUS

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PAGE 1-A

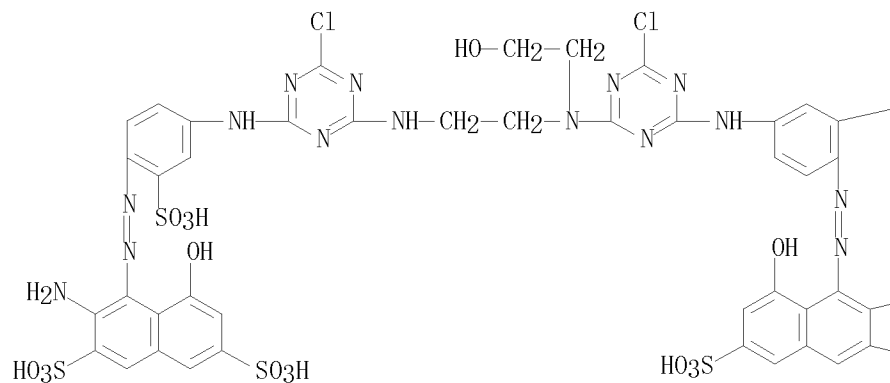


PAGE 1-B

— SO₃H— NH₂— SO₃H

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PAGE 1-A



PAGE 1-B

— SO₃H— NH₂— SO₃H

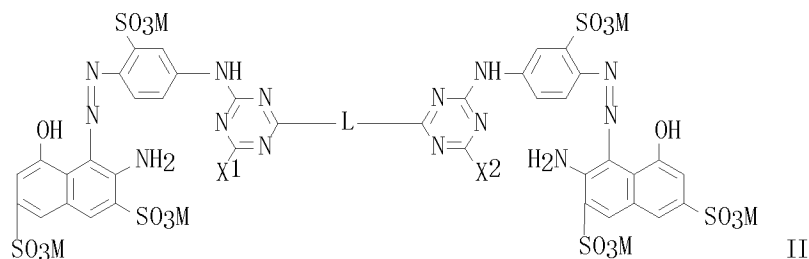
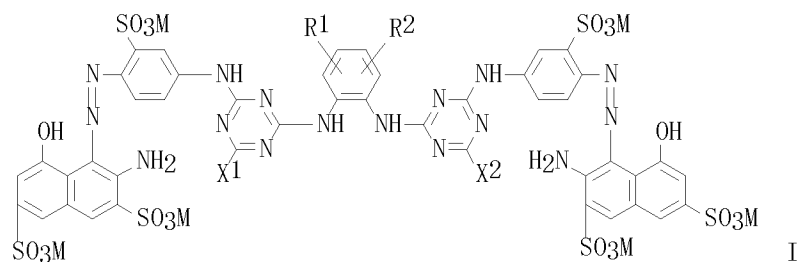
RE. CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2005:231529 CAPLUS
 DN 142:299400
 TI High light fastness reactive red dyes for dyeing and printing fibers
 IN Russ, Werner; Ebenezer, Warren James; Lawrence, Anthony
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
 SO Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW

DT Patent
 LA English

FAN, CNT 1

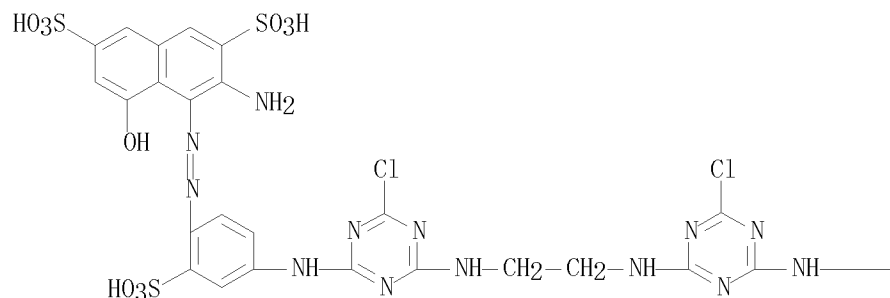
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	AT 355334	T	20060315	AT 2004-20967	20040903
	ES 2281727	T3	20071001	ES 2004-20967	20040903
	CA 2480922	A1	20050312	CA 2004-2480922	20040909
	US 20050059811	A1	20050317	US 2004-937126	20040909
	US 7026458	B2	20060411		
	CN 1607220	A	20050420	CN 2004-10077027	20040909
	CN 100365073	C	20080130		
	BR 2004003782	A	20050524	BR 2004-3782	20040909
	MX 2004008801	A	20050315	MX 2004-8801	20040910
	KR 2005027059	A	20050317	KR 2004-72480	20040910
	JP 2005089753	A	20050407	JP 2004-264406	20040910
	ZA 2004007291	A	20050720	ZA 2004-7291	20040910
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OS	MARPAT 142:299400				
GI					



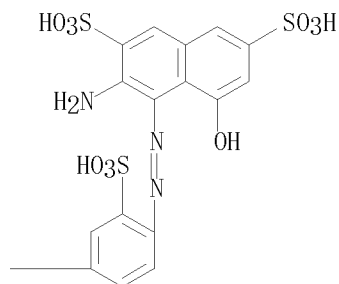
AB The dyes I (R1, R2 = H, C1-4 alkyl; X1, X2 = labile atom or group; and M = H, alkali metal, ammonium ion, alkaline earth metal) and a dye mixture of I and II (X3, X4 = labile atom or group; L = organic linking group; and M = H, alkali metal, ammonium ion or alkaline earth metal) are useful for dyeing and

printing hydroxy- and/or carboxamido-containing fiber materials.
 IT 847687-81-4P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (prepn lightfast reactive red dyes for dyeing and printing fibers)
 RN 847687-81-4 CAPLUS
 CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,2-ethanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE. CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2001:194869 CAPLUS
 DN 134:239016
 TI Azo dyes for anticlogging storage-stable jet-printing inks
 IN Sano, Hideo; Yamada, Masahiro
 PA Mitsubishi Chemical Corp., Japan
 SO Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001072886	A	20010321	JP 1999-254113	19990908
PRAI	JP 1999-254113		19990908		
OS	MARPAT 134:239016				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The dyes, suitable for inks giving printed images with bright magenta color, high resistance to light and water, etc., have free acid structure of I [R1, R2 = H, (un)substituted C1-6 alkyl; R3-6 = H, (un)substituted C1-6 alkyl, aryl, C2-7 acyl; A, B = amine residue; X1, X2 = NR7R8, OR9, SR10; R7-10 = H, (un)substituted C1-8 alkyl, C2-6 alkenyl, aryl, aralkyl, cycloalkyl, N-containing heterocyclic group; R7 and R8 may be bonded to form a 5- or 6-membered ring with N; Y = divalent group]. Thus, an ink containing II, diethylene glycol, diethylene glycol monobutyl ether, and water was prepared and used in jet printing to give printed paper showing high bleeding resistance in water.

IT 329919-16-6P

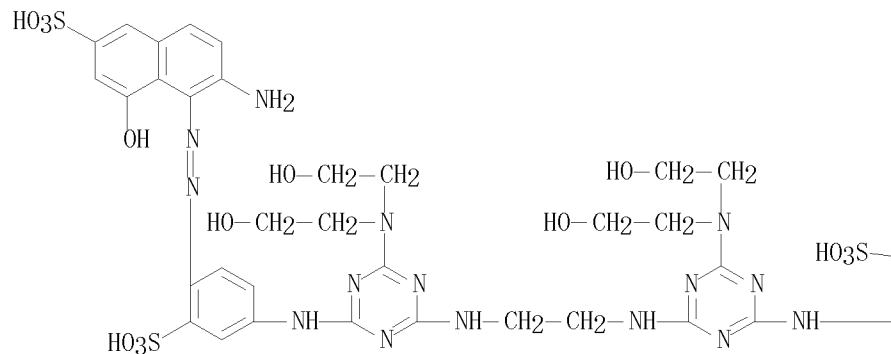
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(azo dyes for anticlogging storage-stable jet-printing inks)

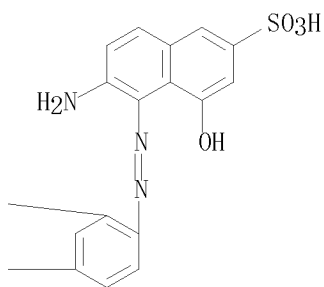
RN 329919-16-6 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,2-ethanediylbis[imino[6-[bis(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

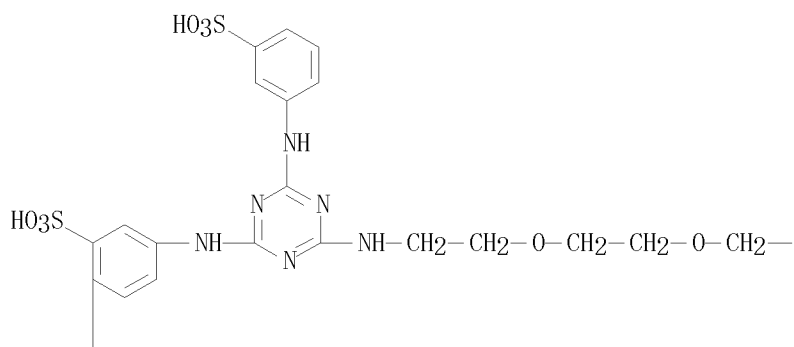


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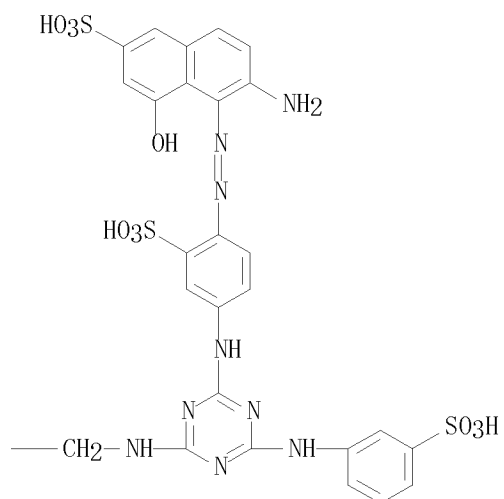


IT 329965-83-5
 RL: PRP (Properties); TEM (Technical or engineered material use); USES
 (Uses)
 (azo dyes for anticlogging storage-stable jet-printing inks)
 RN 329965-83-5 CAPLUS
 CN 2-Naphthalenesulfonic acid, 5,5'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-
 2,1-ethanediyl)imino[6-[(3-sulfophenyl)amino]-1,3,5-triazine-4,2-
 diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, hexalithium
 salt (9CI) (CA INDEX NAME)

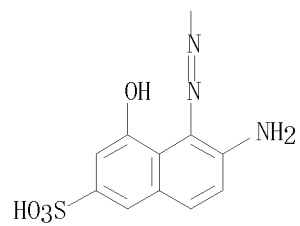
PAGE 1-A



PAGE 1-B



PAGE 2-A



3 (D1-Me)

●6 Li

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:665758 CAPLUS
 DN 131:259012
 TI Ink-jet printing ink compositions and coating compositions for recording sheets
 IN Lavery, Aidan Joseph; Watkinson, Janette
 PA Zeneca Limited, UK; ZSC Specialty Chemicals UK Limited; Avecia Limited
 SO Brit. UK Pat. Appl., 26 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2332438	A	19990623	GB 1998-27475	19981215
	GB 2332438	B	20030319		
	US 6231653	B1	20010515	US 1998-210935	19981215
PRAI	GB 1997-26814	A	19971219		

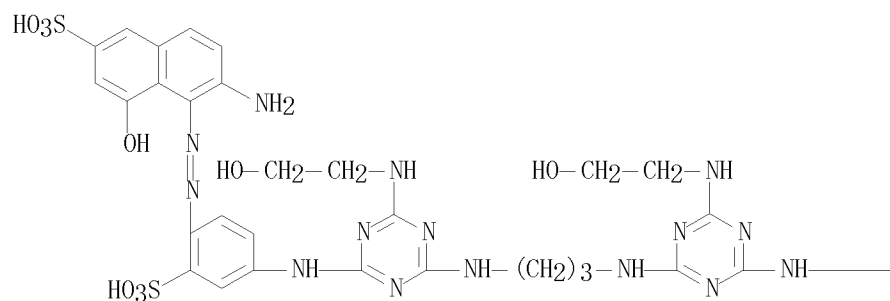
AB The ink with improved light-fastness of prints comprises a dye (e.g., C.I. Direct Blue 199), a sugar (e.g., D-glucose), a compound selected from phosphoric acid and a carboxylic acid or their salts (e.g., ascorbic acid), a solvent (e.g. Butyl Carbitol, and glycerol), and optionally a pH buffer. The recording sheet comprises a substrate coated or impregnated on ≥ 1 surface with a coating composition containing a sugar, a compound selected from phosphoric acid and a carboxylic acid or their salts, and optionally a binder.

IT 223595-74-2P 223595-75-3P 223595-76-4P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dye; ink-jet printing ink compns.)

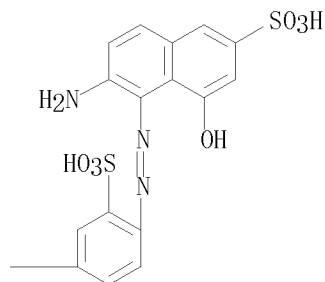
RN 223595-74-2 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



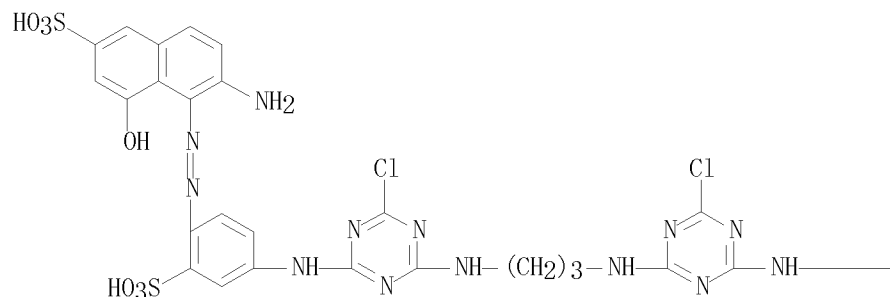
PAGE 1-B



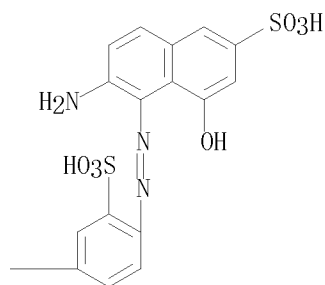
RN 223595-75-3 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-(9CI) (CA INDEX NAME)

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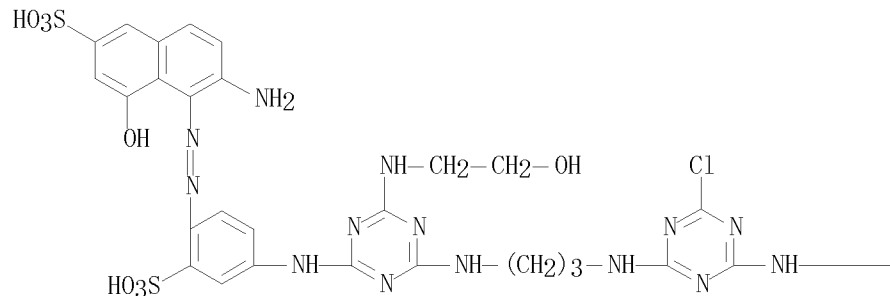
PAGE 1-B



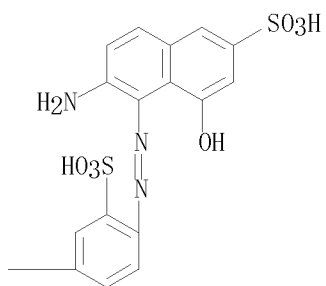
RN 223595-76-4 CAPLUS

CN 2-Naphthalenesulfonic acid, 6-amino-5-[[4-[[4-[[3-[[4-[[4-(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-3-sulfo-phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-phenyl]azo]-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

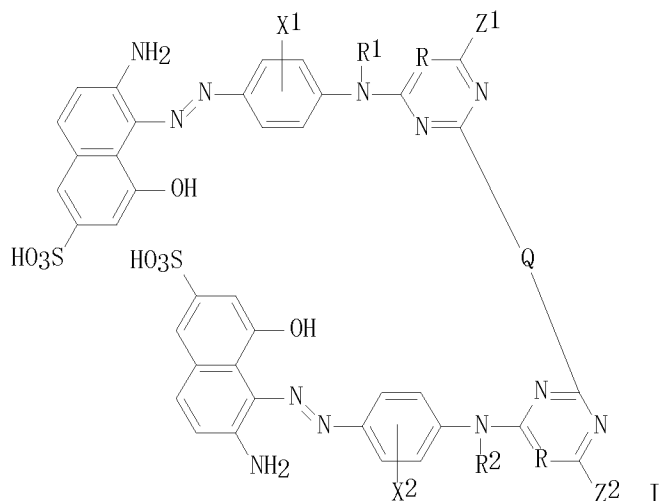


PAGE 1-B



L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:297470 CAPLUS
 DN 130:313186
 TI Disazo dyes for ink jet printing
 IN Robertson, Colin Dick; Carr, Kathryn; Lavery, Aidan Joseph; Wight, Paul;
 Watkinson, Janette
 PA Zeneca Limited, UK
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9921922	A1	19990506	WO 1998-GB2971	19981002
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9892758	A	19990517	AU 1998-92758	19981002
	GB 2346890	A	20000823	GB 2000-7955	19981002
	GB 2346890	B	20020410		
	US 6482255	B1	20021119	US 2000-529810	20000626
PRAI	GB 1997-22396	A	19971024		
	GB 1997-26812	A	19971219		
	WO 1998-GB2971	W	19981002		
OS	MARPAT 130:313186				
GI					



AB The dyes I (A = N, CCl, CCN, CN02; Q = organic linking group; R1, R2 = H, optionally substituted alkyl; X1, X2 = SO3H, CO2H, CF3, PO3H2, optionally substituted alkoxy or alkyl; Z1, Z2 = halogen, ether, thioether, optionally substituted amino) and salts and their mixts. are obtained for use in ink jet inks. The inks have good application and fastness properties. In an example, 5-acetamido-2-aminobenzenesulfonic acid+2-amino-8-naphthol-6-sulfonic acid was prepared and condensed with cyanuric chloride and then with 1,3-diaminopropane and ethanolamine

to give I (A = N; Q = NHCH₂CH₂CH₂NH; R₁ = R₂ = H; X₁ = X₂ = SO₃H ortho to azo group; Z₁ = Z₂ = NHCH₂CH₂OH). This magenta dye gave prints with good optical d. and light fastness.

IT 223595-77-5P 223595-78-6P 223595-79-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye mixture; production of disazo dye compns. for jet printing inks)

RN 223595-77-5 CAPLUS

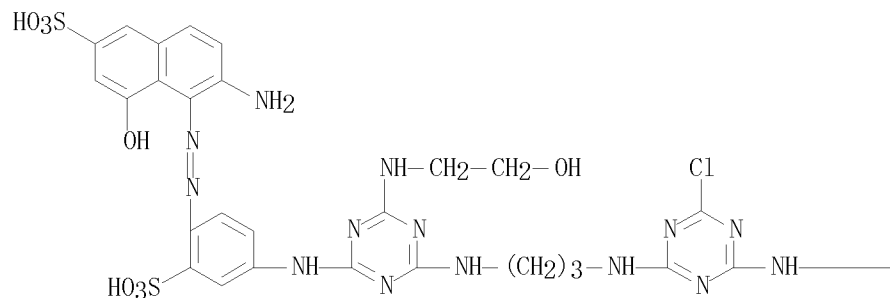
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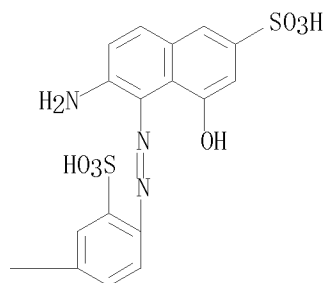
CRN 223595-76-4

CMF C43 H40 Cl N17 O15 S4

PAGE 1-A



PAGE 1-B

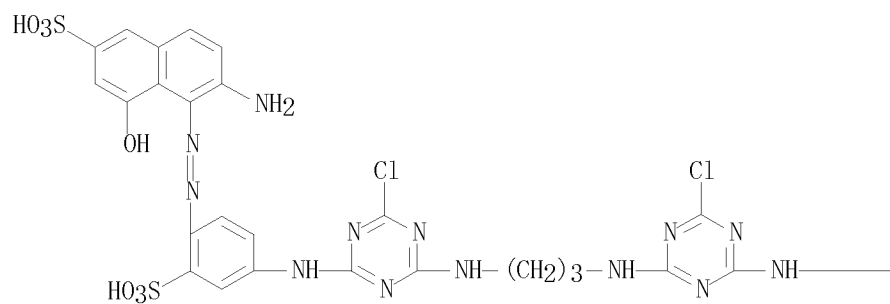


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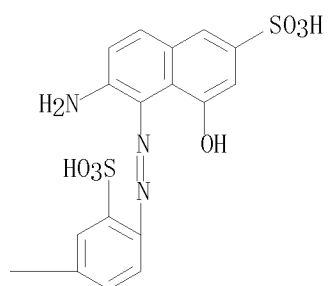
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CMF C41 H34 Cl2 N16 O14 S4

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PAGE 1-B

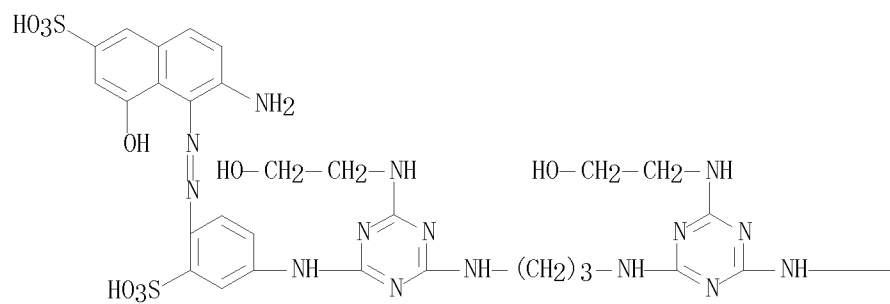


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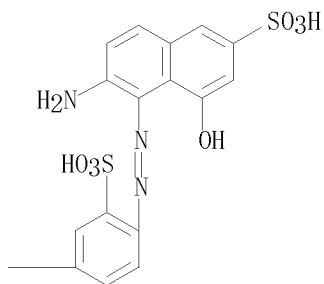
CRN 223595-74-2

CMF C45 H46 N18 O16 S4

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RN 223595-78-6 CAPLUS

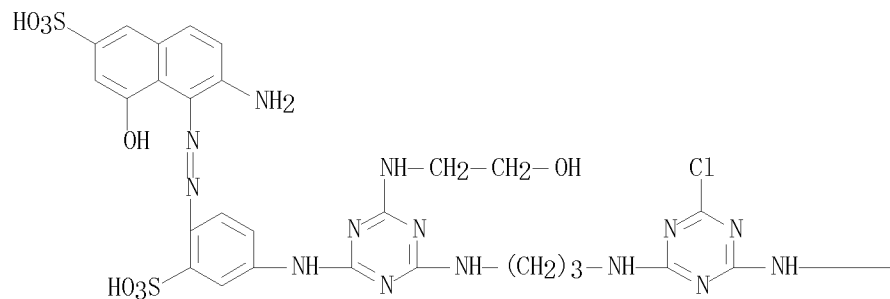
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, mixt. with 6-amino-5-[[4-[[4-[[3-[[4-[[4-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-2-naphthalenesulfonic acid (9CI) (CA INDEX NAME)

CM 1

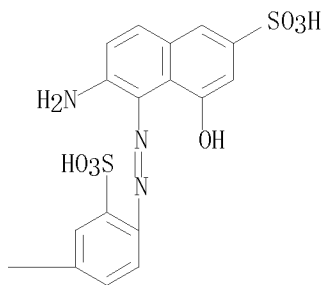
CRN 223595-76-4

CMF C43 H40 Cl N17 O15 S4

PAGE 1-A



PAGE 1-B

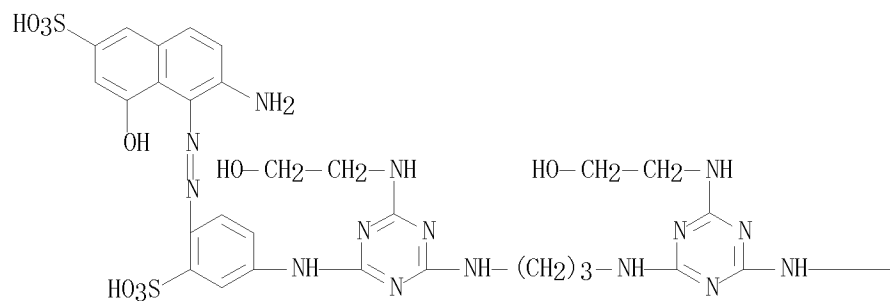


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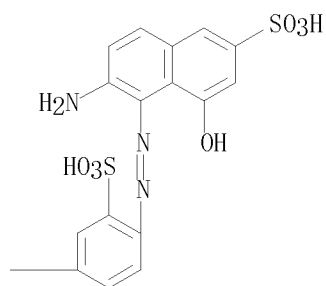
CRN 223595-74-2

CMF C45 H46 N18 O16 S4

PAGE 1-A



PAGE 1-B



RN 223595-79-7 CAPLUS

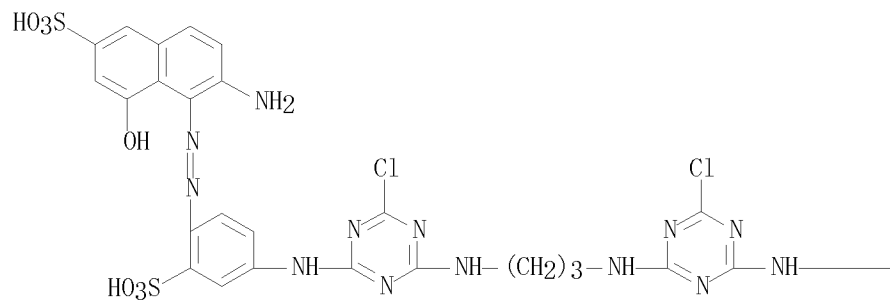
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, mixt. with 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-2-naphthalenesulfonic acid] (9CI) (CA INDEX NAME)

CM 1

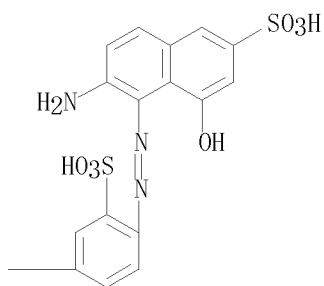
CRN 223595-75-3

CMF C41 H34 Cl2 N16 O14 S4

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PAGE 1-B

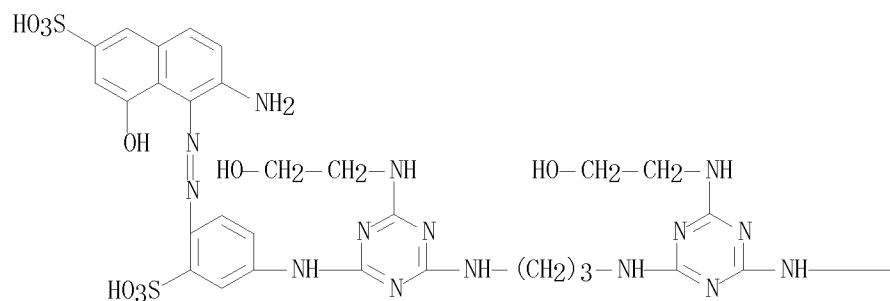


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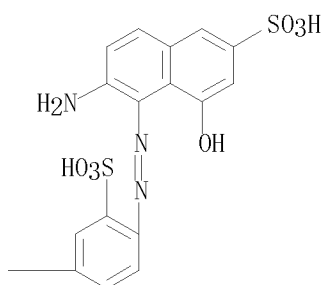
CRN 223595-74-2

CMF C45 H46 N18 O16 S4

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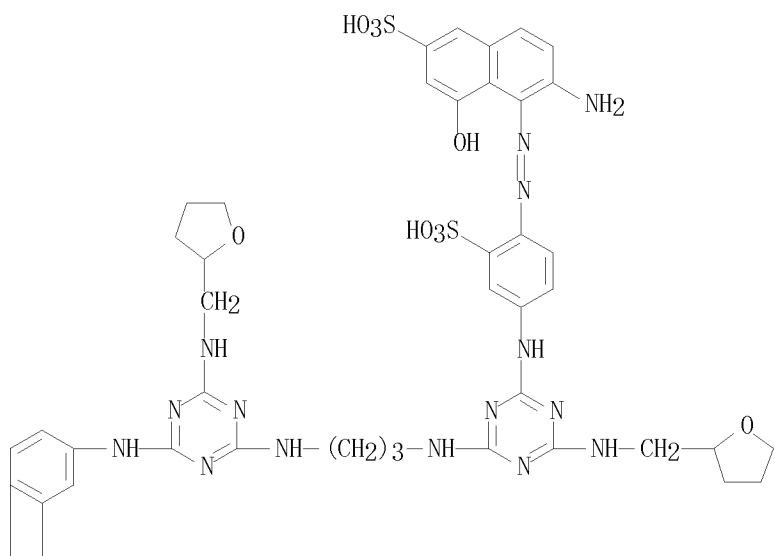
IT 223595-80-0

RL: TEM (Technical or engineered material use); USES (Uses)
(dye; disazo dyes for jet printing inks)

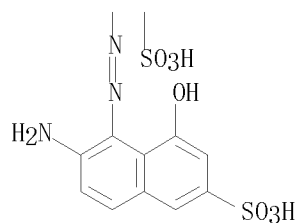
RN 223595-80-0 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[[tetrahydro-2-furanyl)methyl]amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

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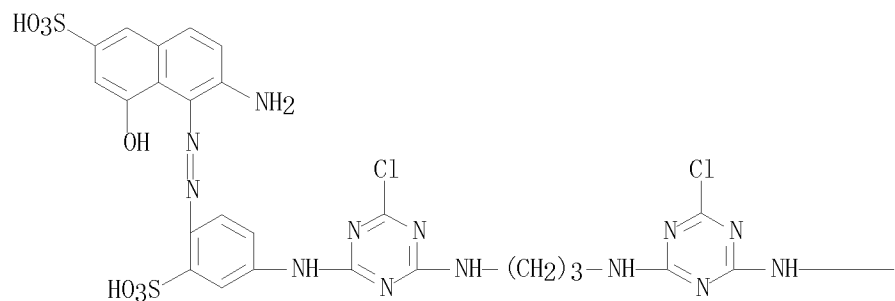
IT 223595-75-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; production of disazo dyes for jet printing inks)

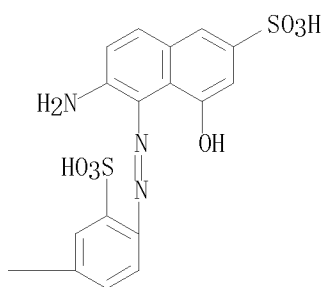
RN 223595-75-3 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-(9CI) (CA INDEX NAME)

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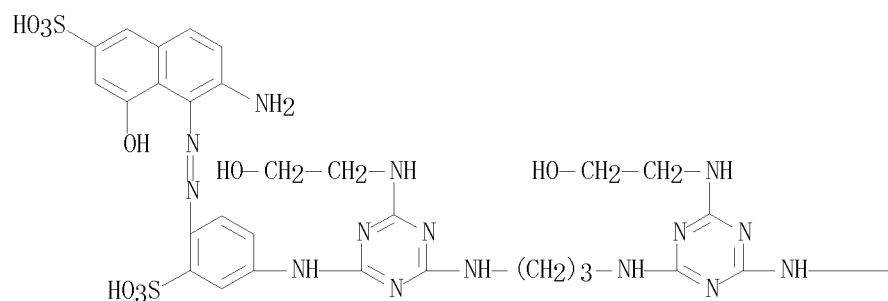


PAGE 1-B

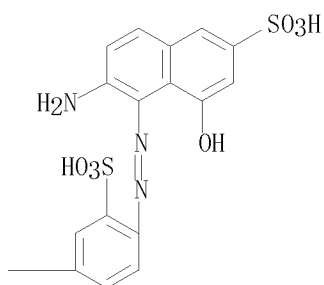


IT 223595-74-2P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (magenta dye; production of disazo dyes for jet printing inks)
 RN 223595-74-2 CAPLUS
 CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis(imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1996:171898 CAPLUS

DN 124:204938

OREF 124:37853a, 37856a

TI Anionic acid azo direct dyes, their preparation, their mixtures, and their use

IN Lauk, Urs

PA Ciba-Geigy A.-G., Switz.

SO Eur. Pat. Appl., 71 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 693538	A2	19960124	EP 1995-810387	19950612
	EP 693538	A3	19960605		
	EP 693538	B1	20010822		
	R: BE, CH, DE, ES, FR, GB, GR, IT, LI, PT				
	US 5631352	A	19970520	US 1995-460174	19950602
	ES 2161847	T3	20011216	ES 1995-810387	19950612
	PT 693538	T	20020130	PT 1995-810387	19950612
	JP 08003469	A	19960109	JP 1995-146285	19950613
	JP 3970946	B2	20070905		
	CN 1133323	A	19961016	CN 1995-107363	19950619
	CN 1066178	C	20010523		
	BR 9502861	A	19960604	BR 1995-2861	19950620
	GR 3036651	T3	20011231	GR 2001-401509	20010918
PRAI	CH 1994-1952	A	19940620		

OS MARPAT 124:204938

AB Mixts. of ≥ 1 azo dye containing 1 or 2 aminotriazine groups with ≥ 1 azo dye containing 2 aminotriazine groups are direct dyes for cellulosics. They are high-temperature-stable and are especially suited for 1-bath dyeing of polyester/cotton with incorporation of a polyester disperse dye under polyester dyeing conditions. Thus, 1 mol cyanuric chloride was condensed with 2 mol 7-amino-4-hydroxy-3-(4-methoxy-2-sulphophenylazo)-2-naphthalenesulfonic acid and then with 1 mol 1,3-diaminopropane to provide an aminotriazine disazo dye which dyed cotton in fast red shades. The dye could also be combined with another azo dye for application.

IT 174571-97-2 174571-99-4

RL: TEM (Technical or engineered material use); USES (Uses)
(anionic acid azo direct dye mixts. for dyeing of cellulosics)

RN 174571-97-2 CAPLUS

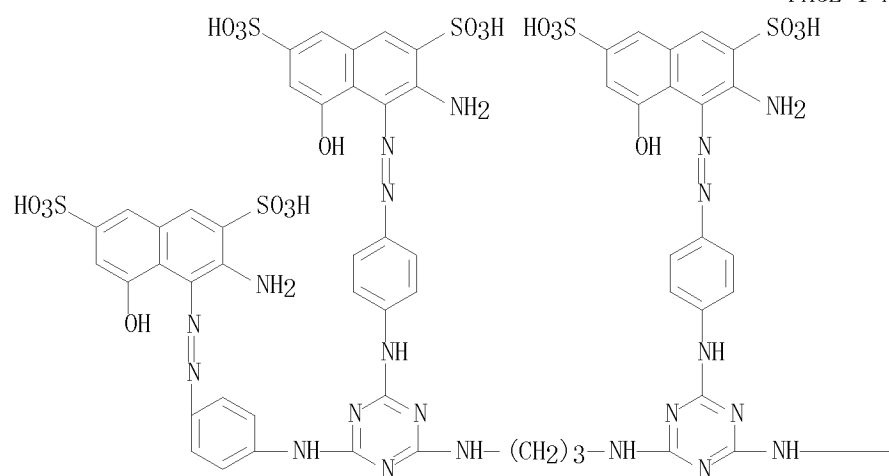
CN 2,7-Naphthalenedisulfonic acid, 4,4',4'',4'''-[1,3-propanediylbis(imino-1,3,5-triazine-6,2,4-triylbis(imino-4,1-phenyleneazo))]tetrakis[3-amino-5-hydroxy-, mixt. with 4,4'-[[6-[(3-aminopropyl)amino]-1,3,5-triazine-2,4-diyl]bis(imino-4,1-phenyleneazo)]bis[3-amino-5-hydroxy-2,7-naphthalenedisulfonic acid] (9CI) (CA INDEX NAME)

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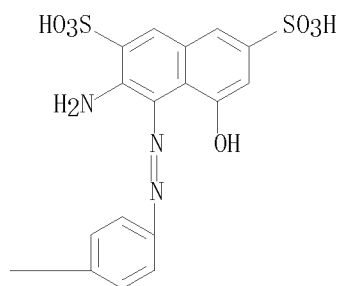
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CMF C73 H60 N24 O28 S8

PAGE 1-A



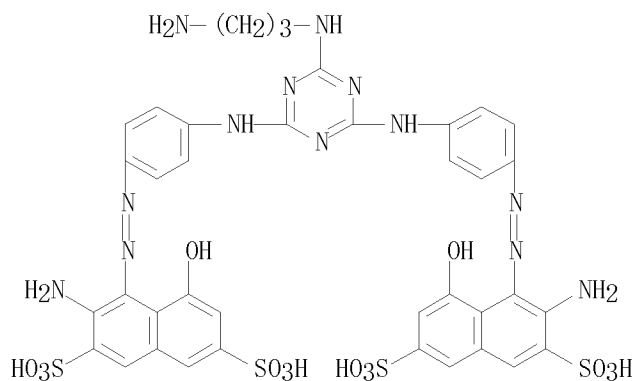
PAGE 1-B



CM 2

CRN 174571-95-0

CMF C38 H35 N13 014 S4



RN 174571-99-4 CAPLUS

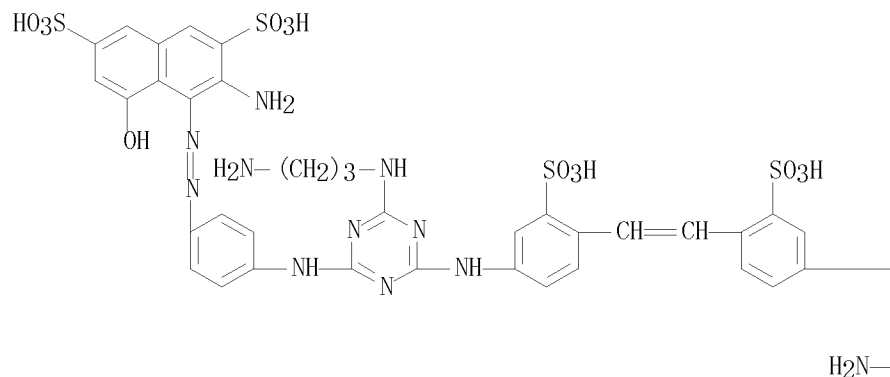
CN 2,7-Naphthalenedisulfonic acid, 4,4',4'',4'''-[1,3-propanediylbis[imino-1,3,5-triazine-6,2,4-triylbis(imino-4,1-phenyleneazo)]]tetrakis[3-amino-5-hydroxy-, mixt. with 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[(3-aminopropyl)amino]-1,3,5-triazine-4,2-diyl]imino-4,1-phenyleneazo]]bis[3-amino-5-hydroxy-2,7-naphthalenedisulfonic acid] (9CI)
(CA INDEX NAME)

CM 1

CRN 174571-98-3

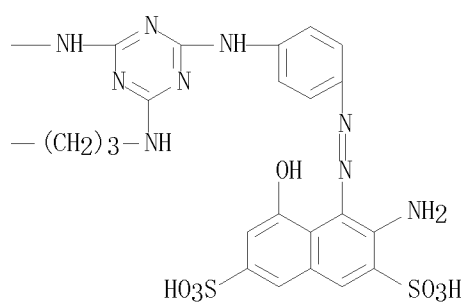
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PAGE 1-B

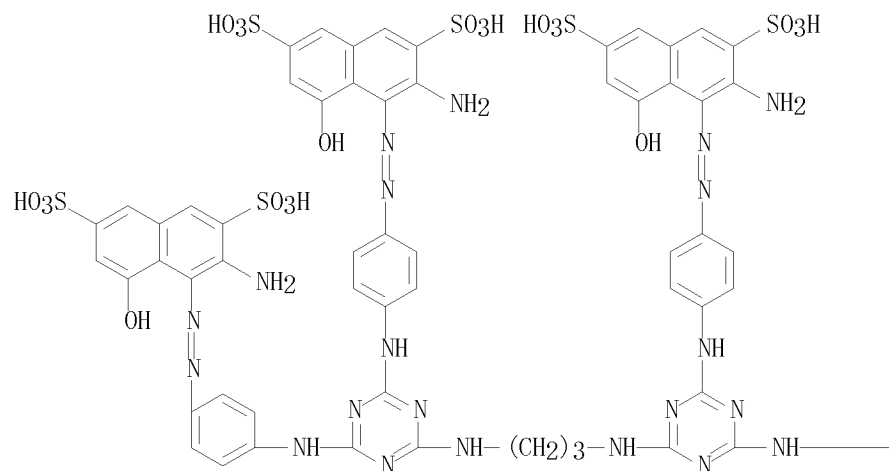


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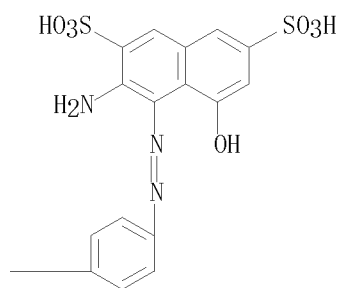
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CMF C73 H60 N24 O28 S8

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PAGE 1-B

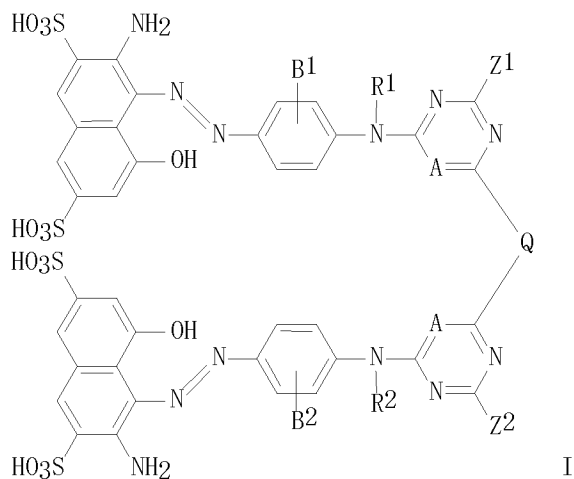


=> s gb2331757/pn
L7 1 GB2331757/PN

=> d bib abs

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1999:588885 CAPLUS
 DN 131:186218
 TI Bis[[4-(2-amino-8-hydroxy-3,6-disulfo-1-naphthylazo)anilino]pyrimidinyl]
 or -1,3,5-triazinyl] dyes and their use in ink-jet inks
 IN Carr, Kathryn
 PA Zeneca Limited, UK
 SO Brit. UK Pat. Appl., 28 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2331757	A	19990602	GB 1998-25225	19981118 <--
	GB 2331757	B	20020925		
PRAI	GB 1997-24975	A	19971127		
OS	MARPAT 131:186218				
GI					



AB Storage-stable, rapid-drying, lightfast, water-resistant dyes have the structure I [each A = N, CC1, CCN, CN02; B1, B2 = (un)substituted alkyl or alkoxy, SO3H, CO2H, CF3, PO3H2; Q = organic group; R1, R2 = H, (un)substituted alkyl; Z1, Z2 = SR3, OR4, NR5R6, labile atom or group; R3-R6 = H, (un)substituted alkyl or aryl or aralkyl, or NR5R6 = 5- or 6-membered heterocyclyl] or its salts. Thus, 4,2-AcNH(HO3S)C6H3NH2 was diazotized and coupled with 3,5-H2N(HO)C10H4(SO3H)2-2,7, the product was deacetylated and condensed 1:1 with cyanuric chloride, and the dichlorotriazine was condensed first with p-phenylenediamine and then with HS(CH2)3SO3H to give a I, a 2% solution of which in 10% aqueous pyrrolidinone applied to glossy paper by ink-jet printing gave a bright magenta print with optical d. 1.67, which decreased by 9% after 64 h exposure in a weatherometer.

```
=> sel 17 1 rn
E1 THROUGH E6 ASSIGNED
```

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1
DICTIONARY FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

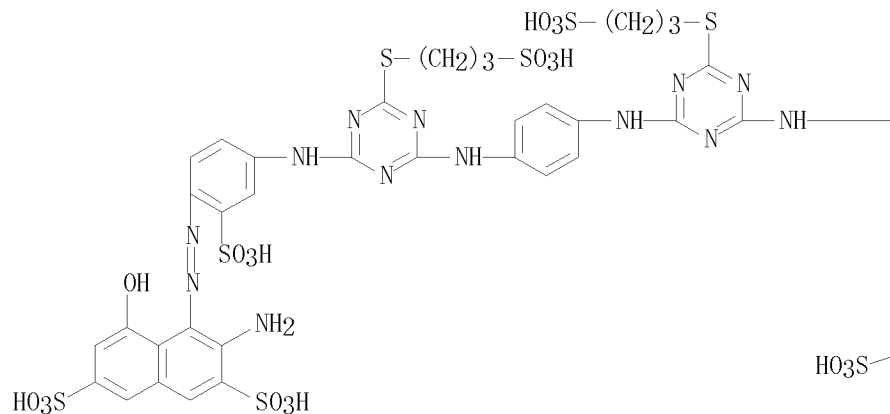
<http://www.cas.org/support/stngen/stndoc/properties.html>

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=> s e1-e6
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        (106-50-3/RN)
      1 108-77-0/BI
        (108-77-0/RN)
      1 240422-25-7/BI
        (240422-25-7/RN)
      1 49594-30-1/BI
        (49594-30-1/RN)
      1 90-40-4/BI
        (90-40-4/RN)
      1 96-78-6/BI
        (96-78-6/RN)
L8      6 (106-50-3/BI OR 108-77-0/BI OR 240422-25-7/BI OR 49594-30-1/BI
        OR 90-40-4/BI OR 96-78-6/BI)
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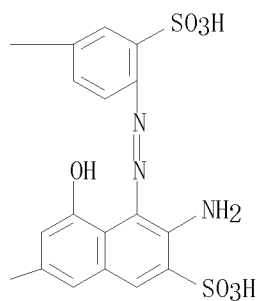
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L8 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
RN 240422-25-7 REGISTRY
ED Entered STN: 21 Sep 1999
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-phenylenebis[imino[6-[(3-
sulfopropyl)thio]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-
phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)
MF C50 H46 N16 O26 S10
SR CA
LC STN Files: CA, CAPLUS
```

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:186218

L8 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
RN 49594-30-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1-Propanesulfonic acid, 3-mercapto- (CA INDEX NAME)
OTHER NAMES:
CN 3-Mercapto-1-propanesulfonic acid
CN 3-Mercaptopropylsulfonic acid
MF C3 H8 O3 S2
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT,
CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2,
USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

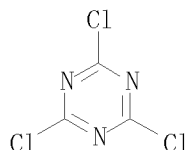
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****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

204 REFERENCES IN FILE CA (1907 TO DATE)
29 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
204 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 150:433811
REFERENCE 2: 150:408376
REFERENCE 3: 150:301158
REFERENCE 4: 150:283414
REFERENCE 5: 150:283413
REFERENCE 6: 150:231473
REFERENCE 7: 150:131036
REFERENCE 8: 150:85361
REFERENCE 9: 150:50264
REFERENCE 10: 149:501837

L8 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 108-77-0 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 1,3,5-Triazine, 2,4,6-trichloro- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN s-Triazine, 2,4,6-trichloro- (8CI)
 OTHER NAMES:
 CN 1,3,5-Trichloro-2,4,6-triazine
 CN 1,3,5-Trichlorotriazine
 CN 2,4,6-Trichloro-1,3,5-triazine
 CN 2,4,6-Trichloro-s-triazine
 CN 2,4,6-Trichloro-sym-triazine
 CN 2,4,6-Trichlorotriazine
 CN Cyanur chloride
 CN Cyanuric chloride
 CN Cyanuric trichloride
 CN Cyanuryl chloride
 CN Isocyanuric trichloride
 CN NSC 3512
 CN s-Triazine trichloride
 CN Solgel W 08
 CN sym-Trichlorotriazine
 CN Trichloro-s-triazine
 CN Trichlorocyanidine
 CN Zorugeru W 08
 DR 190086-22-7
 MF C3 Cl3 N3
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA,
 CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
 CSNB, DETHERM*, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MSDS-OHS, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE,
 TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6084 REFERENCES IN FILE CA (1907 TO DATE)
 413 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 6097 REFERENCES IN FILE CAPLUS (1907 TO DATE)

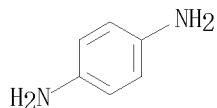
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 REFERENCE 2: 150:503941
 REFERENCE 3: 150:500743
 REFERENCE 4: 150:500580
 REFERENCE 5: 150:500573
 REFERENCE 6: 150:496207
 REFERENCE 7: 150:494600

REFERENCE 8: 150:489958

REFERENCE 9: 150:489687

REFERENCE 10: 150:483652

L8 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
RN 106-50-3 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1,4-Benzenediamine (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN p-Phenylenediamine (8CI)
OTHER NAMES:
CN (4-Aminophenyl)amine
CN 1,4-Diaminobenzene
CN 1,4-Diaminobenzol
CN 1,4-Phenylenediamine
CN 4-Aminoaniline
CN BASF Ursol D
CN Benzofur D
CN Black for Fur D
CN C.I. 76060
CN C.I. Developer 13
CN C.I. Oxidation Base 10
CN Developer PF
CN Durafur Black R
CN Fouramine D
CN Fournine 1
CN Fournine D
CN Fur Black 41867
CN Fur Brown 41866
CN Fur Yellow
CN Furro D
CN Futramine D
CN Nako H
CN NSC 4777
CN Orsin
CN p-Aminoaniline
CN p-Benzenediamine
CN p-Diaminobenzene
CN Pelagol D
CN Pelagol DR
CN Pelagol Grey D
CN Peltol D
CN PPD
CN Renal PF
CN Rodol D
CN Rodol DJ
CN Tertral D
CN Ursol D
CN Zoba Black D
DR 56481-76-6
MF C6 H8 N2
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS,
BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST,
CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*,
HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA,
PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2,
USPATFULL, USPATOLD
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

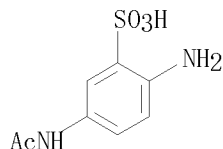


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1016 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9589 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE	1:	150:502396
REFERENCE	2:	150:501148
REFERENCE	3:	150:500558
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REFERENCE	5:	150:496302
REFERENCE	6:	150:495923
REFERENCE	7:	150:495899
REFERENCE	8:	150:495875
REFERENCE	9:	150:495594
REFERENCE	10:	150:495588

L8 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 96-78-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzenesulfonic acid, 5-(acetylamino)-2-amino- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzenesulfonic acid, 5-acetamido-2-amino- (7CI, 8CI)
 OTHER NAMES:
 CN 2-Amino-5-(acetylamino)benzenesulfonic acid
 CN 4-(Acetylamino)aniline-2-sulfonic acid
 CN 4-Acetamido-2-sulfoaniline
 CN 4-Amino-3-sulfoacetanilide
 CN 4-Aminoacetanilide-3-sulfonic acid
 CN 5-Acetamido-2-aminobenzenesulfonic acid
 CN 5-Acetamidoorthanilic acid
 CN 5-Acetylamino-2-aminobenzene-1-sulfonic acid
 CN N4-Acetyl-2-sulfo-p-phenylenediamine
 CN NSC 36988
 MF C8 H10 N2 O4 S
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM,
 IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

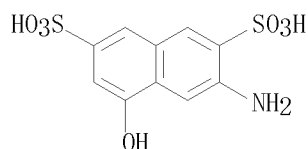


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 89 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:449944
 REFERENCE 2: 148:519040
 REFERENCE 3: 147:428853
 REFERENCE 4: 146:381968
 REFERENCE 5: 144:494624
 REFERENCE 6: 144:313695
 REFERENCE 7: 143:388711
 REFERENCE 8: 143:388584
 REFERENCE 9: 143:287906
 REFERENCE 10: 143:28079

L8 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 90-40-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 2,7-Naphthalenedisulfonic acid, 3-amino-5-hydroxy- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1-Naphthol-3,6-disulfonic acid, 7-amino- (6CI)
 OTHER NAMES:
 CN 1-Hydroxy-3,6-disulfo-7-aminonaphthalene
 CN 2-Amino-8-hydroxynaphthalene-3,6-disulfonic acid
 CN 2-Amino-8-naphthol-3,6-disulfonic acid
 CN 2R acid
 CN 3-Amino-5-hydroxy-2,7-naphthalenedisulfonic acid
 CN 6-Amino-4-naphthol-2,7-disulfonic acid
 CN 7-Amino-1-hydroxy-3,6-naphthalenedisulfonic acid
 CN 7-Amino-1-naphthol-3,6-disulfonic acid
 CN Gamma disulfo acid
 CN NSC 10435
 CN NSC 7560
 CN RR acid
 MF C10 H9 N O7 S2
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM,
 IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
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138 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 139 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 150:495340
 REFERENCE 2: 150:36772
 REFERENCE 3: 149:269519
 REFERENCE 4: 148:549287
 REFERENCE 5: 147:550922
 REFERENCE 6: 147:258980
 REFERENCE 7: 146:467403
 REFERENCE 8: 146:64312
 REFERENCE 9: 145:212793
 REFERENCE 10: 144:313695

=> d his full

(FILE 'HOME' ENTERED AT 17:58:32 ON 30 MAY 2009)

FILE 'REGISTRY' ENTERED AT 17:58:56 ON 30 MAY 2009

L1 STRUCTURE UPLOADED
 D
L2 2 SEA SSS SAM L1
 D SCAN
L3 26 SEA SSS FUL L1
L4 23 SEA ABB=ON PLU=ON L3 AND CAPLUS/LC
L5 3 SEA ABB=ON PLU=ON L3 NOT L4
 D 1-3 IDE CAN

FILE 'CAPLUS' ENTERED AT 18:01:30 ON 30 MAY 2009

L6 6 SEA ABB=ON PLU=ON L3
 D 1-6 BIB ABS HITSTR
L7 1 SEA ABB=ON PLU=ON GB2331757/PN
 D BIB ABS
 SEL L7 1 RN

FILE 'REGISTRY' ENTERED AT 18:07:02 ON 30 MAY 2009

L8 6 SEA ABB=ON PLU=ON (106-50-3/BI OR 108-77-0/BI OR 240422-25-7/
 BI OR 49594-30-1/BI OR 90-40-4/BI OR 96-78-6/BI)
 D 1-6 IDE CAN

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1

DICTIONARY FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1

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predicted properties as well as tags indicating availability of
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<http://www.cas.org/support/stngen/stndoc/properties.html>

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FILE COVERS 1907 - 30 May 2009 VOL 150 ISS 23

FILE LAST UPDATED: 29 May 2009 (20090529/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAlus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.46

257.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-5.74

STN INTERNATIONAL LOGOFF AT 18:07:46 ON 30 MAY 2009